



# STIC EIC2600

## Search Request Form

(96)

232716

Today's Date: 7/31/07 Date Needed by: \_\_\_\_\_ RUSH - SPE signature \_\_\_\_\_Your Name Ryan YangFormat for Search Results:  PAPER  EMAILAU 2628 Examiner # 76963

Where have you searched?

EAST

Room # KNX10A19 Phone 2-7666

NPL \_\_\_\_\_ where - IEEE, ACM, internet, other

Serial # 10/815,195Priority Date 5/29/2000

DESCRIBE the scope of your request, such as the area of art, novelty, process or method if applicable. Specify the concepts, synonyms, keywords, acronyms, or definitions and the relationship of the concepts to each other. Please attach a copy of the background, abstract, and pertinent claims of the application. ONLY specifying CLAIM 1 is not enough.

Litigation searchOriginal patent #: 6,650,318 11/18/2003

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DATABASES Searched	TEXT	LITIGATION
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Query/Command : prt max legalall

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**FAN** - 20042800761291

**PN** - US6650318 B1 20031118 [US6650318]

**TI** - Data input device

**PA** - VKB INC

**PA0** - VKB Inc., Wilmington DE [US]

**IN** - ARNON BOAZ

**AP** - 2000US-0687141 20001013

**PR** - 2000US-0687141 20001013

**IC** - G03H-001/00  
G03H-001/22  
G06F-003/033  
G09B-021/00  
G09G-005/00

**ICAA** - G03H-001/00 [2006-01 A - I R M EP]; G03H-001/22 [2006-01 A - I R M EP];  
G06F-003/033 [2006-01 A - I R M EP]; G09B-021/00 [2006-01 A - I R M EP]

**ICCA** - G03H-001/00 [2006 C - I R M EP]; G06F-003/033 [2006 C - I R M EP]; G09B-  
021/00 [2006 C - I R M EP]

**EC** - G03H-001/00  
G03H-001/22  
G06F-003/042B4  
G09B-021/00B2

**PCL** - ORIGINAL (O) : 345168000; CROSS-REFERENCE (X) : 345156000  
345157000 345158000 345169000 345173000

**CT** - (US6650318)  
Cited; US5457550; US5767842; US6377238; EP0982676; Cited; US4843568;  
US5181181; US6281878; DE29802435; DE29802435; EP0982676; EP0982676;  
WO0021024

**AB** - (US6650318)  
A data input device including an optically generated image of a data input device, the image including at least one input zone actuatable by an action performed thereon by a user, a sensor operative to sense the action performed on the at least one input zone, and to generate signals in response to the action, and a processor in communication with the sensor operative to process the signals for performing an operation associated with the at least one input zone.

**OBJ** - (US6650318)  
The present invention relates generally to data input devices, such as keyboards, and particularly to optically generated images of data input devices.  
The present invention seeks to provide a novel and improved data input device.  
The present invention also provides a multilingual keyboard heretofore impossible to achieve in the prior art.

**ADB** - (US6650318)  
The present invention thus enables user-friendly use of cell phones for communication on the Internet.

In the present invention, since the keys are "virtual", any language can be optically formed on the keys of the keyboard, and a suitable linguistic processor can interpret between the keyed-in language and any other language in which it is desired to transmit a message.

**ICLM**

(US6650318)

1. A data input device comprising:

an optically generated image of a data input device, said image comprising at least one input zone actuatable by an action performed thereon by a user; a sensor operative to sense the action performed on said at least one input zone, and to generate signals in response to said action, said sensor being an optical position sensing device (PSD); and a processor in communication with said sensor operative to process said signals for performing an operation associated with said at least one input zone.

10. A data input device comprising:

an optically generated image of a data input device, said image comprising at least one input zone actuatable by an action performed thereon by a user; a sensor operative to sense the action performed on said at least one input zone, and to generate signals in response to said action, said sensor being an acoustic sensor; and a processor in communication with said sensor operative to process said signals for performing an operation associated with said at least one input zone.

13. A method for data input comprising:

generating an optical image of a data input device, said image comprising at least one input zone actuatable by an action performed thereon by a user;

performing an action on said at least one input zone;

sensing the action performed on said at least one input zone, said sensing comprising:

detecting light reflected from an object within a silhouette of said image; and analyzing a reflection of said light to determine a spatial position of the object;

generating signals in response to said action; and

processing said signals for performing an operation associated with said at least one input zone.

33. A method for data input comprising:

generating an optical image of a data input device, said image comprising at least one input zone actuatable by an action performed thereon by a user;

performing an action on said at least one input zone;

sensing the action performed on said at least one input zone, said sensing comprising:

providing a non-visible light beam emanating from a non-visible-light source;

detecting an image of said non-visible light impinging upon an object; and

analyzing said image of said non-visible light to determine a spatial position of the object;

generating signals in response to said action; and

processing said signals for performing an operation associated with said at least one input zone.

36. A data input device comprising:

an optically generated image of a data input device, said image comprising at least one input zone actuatable by an action performed thereon by a user;

a sensor operative to sense the action performed on said at least one input zone, and to generate signals in response to said action, said sensor being operative to:

detect light reflected from an object within a silhouette of said image; and analyze a reflection of said light to determine a spatial position of the object; and a processor in communication with said sensor operative to process said signals for performing an operation associated with said at least one input zone.

UP - 2003-48

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1/1 LGST - ©EPO

PN - US6650318 B1 20031118 [US6650318]

AP - US68714100 20001013 [2000US-0687141]

ACT - 20001013 US/AS-A

ASSIGNMENT

OWNER: VKB INC. 1013 CENTER ROAD WILMINGTON, DELAWARE, /A;

EFFECTIVE DATE: 20001004

ASSIGNMENT OF ASSIGNEES INTEREST;ASSIGNOR: ARNON,  
BOAZ /AR;REEL/FRAME:011216/0104

20040727 US/RF-A

REISSUE APPLICATION FILED

EFFECTIVE DATE: 20040401

UP - 2006-13

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1/1 CRXX - ©CLAIMS/RRX

PN - 6,650,318 A 20031118 [US6650318]

PA - VKB Inc

ACT - 20040401 REISSUE REQUESTED

ISSUE DATE OF O.G.: 20040727

REISSUE REQUEST NUMBER: 10/815195

EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2673

Reissue Patent Number:

Search statement 3

LEVEL 1 - 1 OF 1 PATENT

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

6650318

November 18, 2003

Data input device

REISSUE: April 1, 2004 - Reissue Application filed Ex. Gp.: 2673; Re. S.N. 10/815,195 (O.G. July 27, 2004)

APPL-NO: 687141 (09)

FILED-DATE: October 13, 2000

GRANTED-DATE: November 18, 2003

CORE TERMS: input, beam, keyboard, optical, sensor, laser, sensing, user, optically, finger ...

**LEXIS-NEXIS**  
**Library: PATENTS**  
**File: ALL**

6,650,318 OR 6650318

**LEXIS-NEXIS**  
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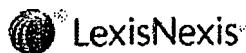
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## Patent Search 6650318 7/31/2007

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